

PERMIT APPLICATION: NRS04.272

APPLICANT: Jeff Sims
Sims Tractor & Equipment
2449 Newport Highway
Sevierville, Tennessee 37876
865-428-4575

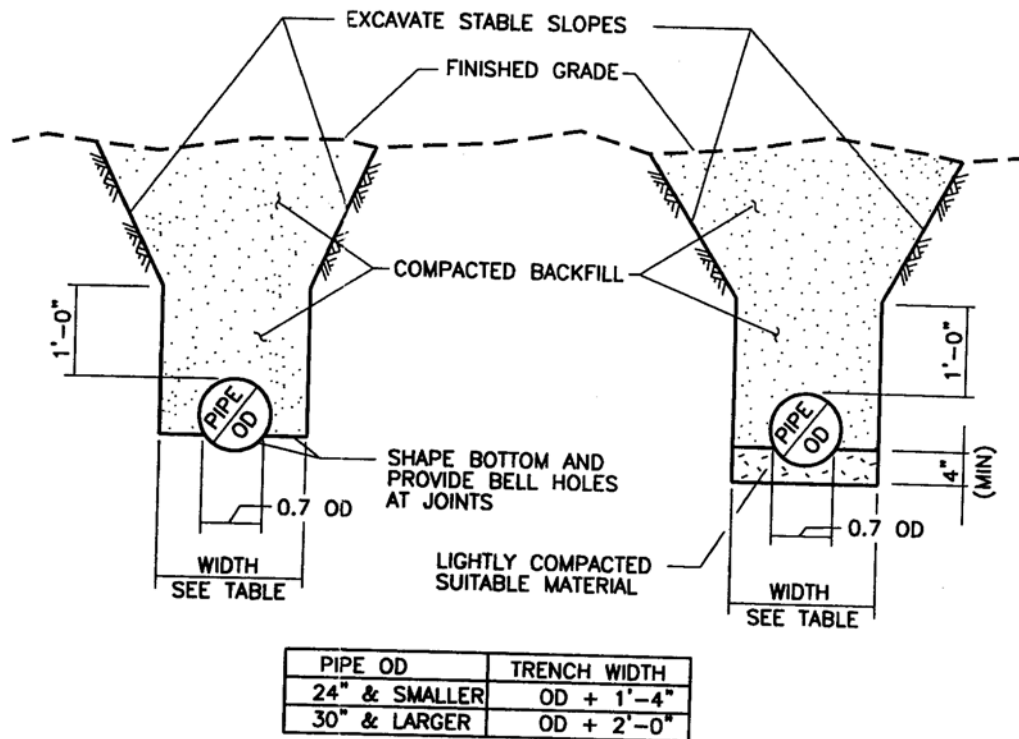
LOCATION: unnamed tributary to Hettie Creek near Sevierville in Sevier County
35° 53' 47"N, 83° 25' 48"W

WATERSHED DESCRIPTION: The tributary is first order as depicted on a 7.5 minute U. S. Geographical Survey topographic map. The stream is listed as fully supporting by the division. The existing channel is about 2' wide and 330 feet long to where it joins another tributary to Hettie Creek. The application describes the existing channel as impacted by recent road construction, including the installation of a corrugated metal pipe road crossing through which this tributary flows. It states that the existing streamside vegetation consists of grasses and weeds and that flow becomes braided before its confluence with another tributary.

PROJECT DESCRIPTION: The proposed work includes encapsulation of 330 feet of an unnamed tributary to Hettie Creek. The encapsulation involves the extension of an existing corrugated metal pipe (38" x 56") through which the tributary presently flows under Flat Creek Road. The requested pipe extension is for a distance of 330 feet. The extension would include a rock energy dissipater at the terminus. A new channel would be constructed downstream of the pipe extension that would collect the flow from the energy dissipater and be about 420 feet in length and about 2' wide. A re-vegetation plan that includes tree planting is proposed along the length of the new channel.

PERMIT COORDINATOR: Robby Baker

USGS TOPOGRAPHIC QUADRANGLE: Shady Grove



PIPE BEDDING DETAIL

SCALE: NONE

APPLICANT: JEFF SIMS
BUSINESS: SIMS TRACTOR AND EQUIPMENT
TELEPHONE: 865-428-4575

Existing Channel: Average width is approximately two feet wide and 350 feet in length. The side slopes are approaching 1:1 in some areas. The existing substrate is rock and eroded material. Native grass and weeds are present.

New Channel to be installed using excavation equipment followed by hand work to final surface and grade. Silt fence shall be placed at the top and toe of each slope. During construction, a rock check dam shall be installed in accordance with TDEC guidelines.

Bank of new reach to be planted with native vegetation. Include trees such as maple, willow, sycamore, etc. to provide canopy cover for the proposed stream.

Total amount of stream removed = 325 feet

Total amount repalced = 420 feet

